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September 6, 2006

Commissioner of Patents
United States Patent and Trademark Office

Please find attached a reply to a USPTO Office communication dated 06/08/2006, regarding a USPTO Office Action Summary for the pending application:

No. 10/660,976, Applicants, Franco Vitaliano and Gordana Vitaliano; Russell S. Negin, Examiner, Art Unit 1631

Filed Pro Se

A handwritten signature in black ink, appearing to be "F. Vitaliano".

Franco Vitaliano

and

A handwritten signature in black ink, appearing to be "Gordana Vitaliano".

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PATENT APPLICATION No. 10/660,976
Applicants: Franco Vitaliano and Gordana Vitaliano
Amendments to the Claims
September 6, 2006, FedEx Airbill # 847963762625

Incorporated As Reference

1. A Neutral Atom Quantum Register

W. Alt, Y. Miroshnychenko, A. Rauschenbeutel and
I. Dotsenko, M. Khudaverdyan, D. Meschede, D. Schrader
Institut für Angewandte Physik der Universität Bonn, 2004

2. Coherently Manipulating Two-Qubit Quantum Information Using A Pair Of Simultaneous Laser Pulses

L. F. Wei, and F. Nori,
Europhys. Lett., 65 (1), pp. 1–6 (2004)
DOI: 10.1209/epl/i2003-10053-y, Europhysics Letters

3. Control and Measurement of Three-Qubit Entangled States

Christian F. Roos, Mark Riebe, Hartmut Haffner,
Wolfgang Hansel, Jan Benhelm, Gavin P. T. Lancaster,
Christoph Becher, Ferdinand Schmidt-Kaler, Rainer Blatt
4 June 2004 Vol 304 Science

4. Laser Addressing Of Individual Ions In A Linear Ion Trap

H. C. Nagerl, D. Leibfried, H. Rohde, G. Thalhammer, J. Eschner, F. Schmidt-Kaler, and
R. Blatt
Physical Review A Volume 60, Number 1 July 1999

5. Perfect Quantum Error Correction Coding In 24 Laser Pulses

Samuel L. Braunstein
John A. Smolin (August 28, 2006)
arXiv:quant-ph/9604036 v2 22 Oct 1996

6. Quantum Computation with Ultrafast Laser Pulse Shaping

Debabrata Goswami
Resonance, June 2005

7. Speed Optimized Two-Qubit Gates with Laser Coherent Control Techniques for Ion Trap Quantum Computing

J. J. Garcia-Ripoll, P. Zoller, and J. I. Cirac
Volume 91, Number 15, Physical Review Letters, 10 October 2003

8. Weak Nonlinearities: A New Route To Optical Quantum Computation

W J Munro, K Nemoto and T P Spiller
New Journal of Physics 7 (2005) 137, 27 May 2005